

EPA RESPONSE TO REQUEST

ENCLOSURE (3)

POLYCHEM

U.S. POLYCHEMICAL
CORPORATIONEXECUTIVE OFFICES • PLANT • LABORATORY
584 Chestnut Ridge Road, Chestnut Ridge, NY 10977
(800) 431-2072 • (845) 356-5530
www.uspoly.com • Fax (845) 356-6656H M I S HAZARD RATINGS:

Health	1
Flammability	0
Reactivity	0
Personal Protection	B

MATERIAL SAFETY DATA SHEET

Taken Tongue Making Home Bell Bell

SECTION I -- PRODUCT INFORMATION

MANUFACTURE'S NAME	U.S. POLYCHEMICAL CORP	MANUFACTURER'S CODE IDENTIFICATIONS:	SPRAY JET 790 XS
STREET ADDRESS	584 CHESTNUT RIDGE ROAD	CITY, STATE AND ZIP CODE	CHESTNUT RIDGE, NY 10977
EMERGENCY TELEPHONE NO.	845-356-5530	PRODUCT CLASS	AQUEOUS ALKALINE CLEANER
INFORMATION TELEPHONE NO.	845-356-5530	TRADE NAME	POLYCHEM SPRAY JET 790 XS

PREPARATION DATE	AUGUST 10, 1995	REVISION DATE	JAN. 2005	DATE ISSUED	MAY 27, 2008
------------------	-----------------	---------------	-----------	-------------	--------------

SECTION II -- HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	%	OCCUPATIONAL EXPOSURE LIMITS				NIOSH/ OTHER
			OSHA		ACGIH		
			PEL/TWA PPM	PEL/CEILING PPM	TLV/TWA PPM	TLV/STEL PPM	
TETRAPOTASSIUM PYRO PHOSPHATE SODIUM SILICATE	7320-34-5	5-15	N.E.	N.E.	N.E.	N.E.	-
	10213-79-3	2-8	N.E.	N.E.	N.E.	N.E.	-
* APPROPRIATE IN N.E. - NOT ESTABLISHED							

SECTION III -- PHYSICAL DATA

BOILING RANGE APPROXIMATELY: 212°F VAPOR DENSITY: (☐) HEAVIER (☐) LIGHTER THAN AIR (☒) NOT APPLICABLE

EVAPORATION RATE: (☐) FASTER (☐) SLOWER THAN ETHER (☒) NOT APPLICABLE

PERCENT VOLATILE BY VOLUME: NONE VOC: -- g/l SPECIFIC GRAVITY @ 20 °C 1.079 WEIGHT PER GALLON 9.0 LBS

SOLUBILITY IN WATER: SOLUBLE pH CONCENTRATE: 10.8 APPEARANCE AND ODOR: CLEAR SOLUTION, MILD ODOR

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA / DOT: UNCLASSIFIED FLASH POINT: -- °F T.C.C LEL: NOT DETERMINED

EXTINGUISHING MEDIA (X) FOAM (X) ALCOHOL FOAM (X) CO₂ (X) DRY CHEMICAL (X) WATER FOG () OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS NONE KNOWN

SPECIAL FIRE FIGHTING PROCEDURES: NONE KNOWN.

COOL CONTAINERS WITH WATER SPRAY TO PREVENT RUPTURE.

584268



POLYCYTEM SJ 780 XS

SECTION V -- HEALTH AND HAZARD DATA

EFFECT OF OVER EXPOSURE

PROLONGED OR REPEATED CONTACT CAN CAUSE IRRITATION
OF SKIN, EYES AND RESPIRATORY TRACT.
SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS.MEDICAL CONDITIONS PRONE
TO AGGRAVATION BY
EXPOSURE:

PRIMARY ROUTE(S) OF ENTRY

☒ ()

DERMAL

☒ ()

INHALATION

☒ ()

INGESTION

OSHA/ACGIH SKIN HAZARD

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: GIVE TWO GLASSES OF MILK AT ONCE. DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

SKIN: REMOVE CONTAMINATED CLOTHING. LAUNDRY CLOTHES PRIOR TO REUSE. WASH SKIN WITH PLENTY OF WATER.

EYES: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION.

INHALATION: MOVE TO FRESH AIR

SECTION VI -- REACTIVITY DATA

STABILITY

☐ () UNSTABLE☒ ()

STABLE

CONDITIONS TO AVOID

-

INCOMPATIBILITY (MATERIALS TO AVOID)

AVOID CONTACT WITH STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS

BURNING OF PRODUCT MAY PRODUCE OXIDES OF CARBON .

HAZARDOUS POLYMERIZATION ☐ () MAY OCCUR☒ ()

WILL NOT OCCUR

SECTION VII -- SPILL OR LEAK PROCEDURESSTEPS TO BE TAKEN IN CASE
MATERIAL IS RELEASED OR SPILLED:

COLLECT ON ABSORBENT MATERIAL. RINSE AREA WITH PLENTY OF WATER.

WASTE DISPOSAL

THE WASTE MUST BE DISPOSED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII -- SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

NONE NORMALLY REQUIRED.

VENTILATION

NONE NORMALLY REQUIRED.

PROTECTIVE GLOVES

VITON/NEOPRENE GLOVES

OTHER PROTECTIVE EQUIPMENT: LONG SLEEVE SHIRT & PANT
EYE WASH STATION, SHOWER

EYE PROTECTION

GOGGLES WITH SIDE SHIELD

SECTION IX -- SPECIAL PRECAUTIONS & REGULATORY INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN COOL DRY PLACE.

WASH HANDS AFTER HANDLING THIS MATERIAL. AVOID PROLONGED CONTACT WITH SKIN AND EYES.
EMPTY CONTAINERS MAY CONTAIN RESIDUAL MATERIAL.

TRANSPORT INFORMATION: SHIPPING NAME & "CONTAINS" FOR N.O.S. LISTINGS: CLEANING COMPOUND, N.O.S

UN ID NUMBER --

CLASS: --

PACKING GROUP: --

SARA TITLE III HAZARD INFORMATION: --

TOXIC SUBSTANCE CONTROL ACT (TSCA): ALL COMPONENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY OR
ARE EXEMPT FROM TSCA INVENTORY REQUIREMENT.CEPA-DOMESTIC SUBSTANCES LIST (DSL): THE COMPONENTS OF THIS PRODUCT ARE ON THE DSL OR ARE EXEMPT FROM
REPORTING UNDER THE NEW SUBSTANCES NOTIFICATION REGULATIONS.EUROPEAN INVENTORY OF EXISTING
COMMERCIAL CHEMICAL SUBSTANCES (EINECS) ALL COMPONENTS IN THIS PRODUCT ARE IN COMPLIANCE WITH EINECS.THIS INFORMATION IS OFFERED IN COMPLIANCE WITH OSHA AND EPA HAZARD COMMUNICATION REQUIREMENTS BASED ON AVAILABLE DATA. WE BELIEVE THE INFORMATION IS ACCURATE. SUBMISSION OF THIS
INFORMATION DOES NOT CONSTITUTE ANY WARRANTY, EITHER STATED OR IMPLIED. USER ASSUMES ALL LIABILITY FOR PROPERLY USING THIS INFORMATION.

Hammer para Soldar - WIRE -

Material Safety Data Sheet

Section 1. Product and Company Identification

Common Name	Sn43/Pb43/Bi14 OAJ	Code	Not available
Product type	Cored wire (acid)	Validation Date	2005-01-25
Synonym	Not available.	Version number	3
Material Uses	Metal industry: Soldering.		
Supplier	AIM	In Case of Emergency INFOTRAC (North America): (800) 535-5053 (International): (352) 323-3500	
Manufacturer	AIM 9100 Henri-Bourassa east Montréal, Quebec, Canada, H1E 2S4 (514) 494-2000		

Section 2. Hazardous Components

Name	CAS #	% by Weight	Toxicity Data (LC50/LD50, TLV)
1) Tin	7440-31-5	41 - 43	TWA: 2 (mg/m ³) from OSHA (PEL) [United States] [1997] <u>INHALATION</u> Respirable. TWA: 2 (mg/m ³) from ACGIH (TLV) [United States] [1994] <u>INHALATION</u> Respirable.
2) LEAD	7439-92-1	41 - 43	TWA: 0.05 (mg/m ³) from ACGIH (TLV) [United States] [1995] <u>INHALATION</u> Respirable.
3) Bismuth	7440-69-9	12 - 14	TWA: <0.1 (ppm) from NIOSH <u>INHALATION</u> Respirable. ORAL (LD50): Acute: 5000 mg/kg [Rat].

Section 3. Hazards Identification

Physical State and Appearance	Solid.
Emergency Overview	WARNING! Risk of cancer depends on duration and level of exposure. Avoid contact with eyes, skin and clothing. DO NOT ingest. Avoid breathing dusts and fumes. Use only with adequate ventilation. Avoid exposure during pregnancy. Wash thoroughly after handling.
Routes of Entry	Inhalation. Ingestion.
Potential Acute Health Effects	Eyes Fumes and/or dusts produced by this product may be hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Skin This product may be hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Inhalation This product may be hazardous in case of Inhalation (lung sensitizer). Ingestion Fumes and/or dusts produced by this product may be hazardous in case of ingestion.
Potential Chronic Health Effects	Fumes and/or dusts produced by this product may be hazardous in case of Ingestion, of Inhalation. This product may be hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant).
Medical Conditions Aggravated by Overexposure:	Repeated exposure to toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Overexposure /Signs/Symptoms	Not available.
See Toxicological Information (section 11)	

Sn43/Pb43/Bi14 DAJ

Page: 2/7

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. DO NOT use an eye ointment. Seek medical attention.
Skin Contact	Prolonged and repeated contact with bare skin may cause irritation. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap.
Hazardous Skin Contact	MOLTEN METAL can cause SEVERE BURNS! In case of BURNS: Rinse skin with water. Do not burst blisters. Do not cover with greasy compound. Cover with a wet sterile gauze. Seek IMMEDIATE medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Hazardous Inhalation	No additional information.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Hazardous Ingestion	No additional information.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...), some metallic oxides.
Fire Hazards in Presence of Various Substances	Combustible in presence of open flames. Non-flammable in presence of shocks, of oxidizing materials, of reducing materials, of combustible materials, of organic materials, of metals, of acids, of alkalis, of moisture.
Explosion Hazards in Presence of Various Substances	Non-explosive in presence of open flames and sparks, of shocks, of heat.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	Metallic part of product is nonflammable. The core may burn if exposed to direct flame.
Special Remarks on Explosion Hazards	No additional remark.

Section 6. Accidental Release Measures

Small Spill and Leak	MOLTEN METAL: Let cool before picking up and returning to process or recycling. OTHER: Use appropriate tools to put the spilled solid in a container reserved to that effect.
Large Spill and Leak	Our data base contains no additional information in case of a spill and/or a leak of the product.

Sn43/Pb43/Bi14 OAJ

Page: 3/7

Section 7. Handling and Storage

Handling	Wear suitable protective clothing. Use in a well ventilated area. When using do not eat, drink or smoke. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
Storage	Keep container dry and tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

Section 8. Exposure Controls, Personal Protection

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes Safety glasses.

Body Lab coat.

Respiratory Wear appropriate respirator when ventilation is inadequate. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Hands gloves (suitable to the operation)

Feet Not applicable.

* Note: Suggested protective clothing may not be adequate for a specific process. Consult a specialist before using.

Personal Protection in Case of a Large Spill No additional information

Product Name**Exposure Limits**

1) TIN

TWA: 2 (mg/m³) from OSHA (PEL) [United States] [1997] INHALATION Respirable.

2) LEAD

TWA: 2 (mg/m³) from ACGIH (TLV) [United States] [1994] INHALATION Respirable.

3) Bismuth

TWA: 0.05 (mg/m³) from ACGIH (TLV) [United States] [1995] INHALATIONTWA: <0.1 (ppm) from NIOSH INHALATION Respirable.
Not available.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Solid.	Odor	Odorless.
Molecular Weight	Not applicable.	Taste	Not applicable.
Chemical formula	Not applicable.	Color	Silver-grey.
pH (1% Soln/Water)	Not applicable.	Specific Gravity	Approx: 8.9 (Water = 1)
Acid Value (IPC TM-650, 2.3.13)	Not available.		
Boiling/Condensation Point	Not available.		
Melting/Freezing Point	324 - 163°C (291 - 325 F) (Sn43 Pb43 Bi14)		
Critical Temperature	Not available.		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		

Sn43/Pb43/Bi14 OAJ

Page: 4/7

Evaporation Rate	not available
VOC	Not available.
Viscosity	Not available.
LogK _{ow}	The product is insoluble in water and oil.
Ionicity (in Water)	Non-ionic.
Dispersion Properties	Is not dispersed in cold water, hot water, diethyl ether, n-octanol, acetone.
Solubility	Very slightly soluble in methanol (core) Insoluble in cold water, hot water, diethyl ether, n-octanol, acetone.
Physical Chemical Comments Not available.	

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Stable in normal conditions. Over melting point, toxic metallic oxides may be evolved. A small amount of organic fumes may also be evolved.
Incompatibility with Various Substances	Slightly reactive with oxidizing agents, metals, acids.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.
Corrosivity	Slightly corrosive in presence of copper. Non-corrosive in presence of glass, of aluminum, of zinc, of stainless steel(304), of stainless steel(316).
Special Remarks on Corrosivity	Organic base core in a solder wire has the primary task of cleaning a metal surface (remove and prevent oxidation) to improve bonding with the solder.

Section 11. Toxicological Information

Toxic and Chronic Effects on Humans	Fumes and/or dusts produced by this product may be hazardous in case of ingestion, of inhalation. This product may be hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant). CARCINOGENIC EFFECTS: [LEAD]: Classified + (Proven) by OSHA, A3 (Proven for animal) by ACGIH, 2B (Possible for human) by IARC. MUTAGENIC EFFECTS Not available. TERATOGENIC EFFECTS Not available. DEVELOPMENTAL TOXICITY PROVEN [Lead] The product may be toxic to lungs, upper respiratory tract, skin, eyes, blood, kidneys, the nervous system, the reproductive system, spleen, brain, digestive system, gastro-intestinal tract. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Toxicity to Animals	No specific information is available in our data base regarding the toxicity to animals.
Special Remarks on Chronic Effects on Humans	Human: LEAD crosses the placental barrier. CHRONIC OVEREXPOSURE EFFECTS; Increase of LEAD LEVEL in blood, muscle soreness, metallic taste, abdominal cramps, headaches. Overexposure to tin oxide fumes may result in benign pneumoconiosis (stannosis).
Special Remarks on Other Toxic Effects on Humans	Fumes may irritate eyes, digestive system and respiratory tract. MOLTEN METAL can cause severe BURNS!
Special Remarks on Toxicity to Animals	No additional remark.

Sn43/Pb43/Bi14 OAJ

Page: 5/7


Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Biodegradable/OECD	Not available.
Mobility	Not available.
	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Not a TDG controlled material (Canada).	
	Not available.	
Special Provisions for Transport	Not applicable.	
Special Provisions for Transport		
IMO/IMDG Classification	Not controlled under IMDG.	
Marine Pollutant	Not available.	
ADR/RID Classification	Not controlled under ADR (Europe).	
ICAO/IATA Classification	Not controlled under IATA.	

Section 15. Regulatory Information

HCS Classification	Class: Contains material which can cause cancer. Class: Irritating substance. Class: Sensitizing substance. Class: Target organ effects. Class: Reproductive toxins.
U.S. Federal Regulations	TSCA inventory: ALL COMPONENTS SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Lead; delayed health hazard SARA 313 toxic chemical notification and release reporting: Lead: 0.1% Clean water act (CWA) 307: No products were found.

Sn43/Pb43/Bi14 OAJ

Page: 6/7

Clean water act (CWA) 311: No products were found.
 Clean air act (CAA) 112 accidental release prevention: No products were found.
 Clean air act (CAA) 112 regulated flammable substances: No products were found.
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

State Regulations

Rhode Island RTK hazardous substances: Tin; Lead
 Pennsylvania RTK: Tin; Lead
 Florida: Tin; Lead
 Minnesota: Tin; Lead; Rosin
 Michigan critical material: Lead
 Massachusetts RTK: Tin; Lead
 New Jersey: Tin; Lead
 New Jersey spill list: Tin

California prop. 65: This product contains LEAD for which the State of California has found to cause cancer, birth defects or other reproductive harm (male, female), which would require a warning under the statute.

International Regulations

EINECS

Not available.

DSDL (EEC)

20/22- Harmful by inhalation and if swallowed.
 R33- Danger of cumulative effects.
 36/38- Irritating to eyes and skin.
 43- May cause sensitization by skin contact.
 61- May cause harm to the unborn child.
 62- Possible risk of impaired fertility.

International Lists

No products were found.

Section 16. Other Information

Hazardous Material
Information System
(U.S.A.)

Flammability	2
High Hazard	0
Reactivity	0
Personal Protection	B

National Fire
Protection
Association (U.S.A.)



Label statements

BIRTH DEFECT HAZARD
 HARMFUL IF INHALED OR SWALLOWED.
 CAUSES EYES AND SKIN IRRITATION.
 MAY CAUSE TARGET ORGANS DAMAGE
 CONTAINS MATERIAL WHICH CAN CAUSE CANCER BASED ON ANIMAL DATA.
 MAY BE HARMFUL TO ENVIRONMENT IF RELEASED IN LARGE AMOUNT

References

-ACGIH, Threshold Limit Values, 1984-1985. -Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List". -CFR29, OSHA's Permissible Exposure Limits, revision July, 1993. -CFR29, part 1910.1200, Hazard Communication. -CHEMTOX database -Components' manufacturer's Material Safety Data Sheet. -CRC Handbook of chemistry and physics, 67 th edition, CRC Press inc., Boca Raton, Florida. -CSST (Comission de Santé et Sécurité au Travail), document #RT-12: Classification of Certain Chemical Substances. -IATA, Dangerous Goods Regulations, 37th edition (January 1, 1996) -NFPA, Fire Protection Guide to Chemical Hazards, 11th edition. -NIOSH, Pocket Guide to Chemical Hazards, revision June 1994. Sigma-Aldrich handbook of fine chemicals, 1998 -TSCA (Toxic Substance Contral Act), Chemical Substance Inventory List, 1985.

Other Special
Considerations

-ALL INGREDIENTS WITH SUSCEPTIBLE HAZARDS THAT ARE PRESENT IN A CONCENTRATION GREATER THAN 1 % (GREATER THAN 0.1 % FOR CARCINOGENS) HAVE BEEN DISCLOSED IN THIS SAFETY DOCUMENT.

Document
Modifications

Validated by R. Richard on 2005-01-25.

Verified by R. Richard.

Printed 2005-01-25.

Information/Contact

AIM
 25 Kenney Drive, Rhode Island, USA, 02920
 (401) 463-5605 (800) CALL AIM

Sn43/Pb43/Bi14 OAJ

Page: 7/7

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.